PreCalculus Ch 4 Review Test #2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_\_

Find the exact value of each expression.

1. sin(sin-1 0.567) 2. cos-1(cos - ) 3. arctan(tan 7π) 4. tan(tan-1 4)

5. tan(arcsin 6. csc(tan-1 2) 7. cot(cos-1

Find two solutions of the equation. Give your answers in degrees ( 0˚) and

in radians ( 0˚.

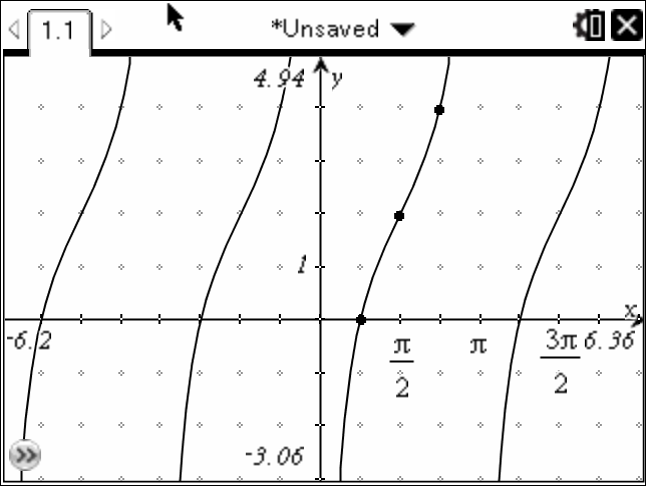
8. cos= 9. csc 10. Cot

Graph each function. Label your axes and include a positive and a negative period.

11. y = -3 sin 6x 12. y =

13. y = 14. y = -sec (

15. y = cot 2πx – 2 16. Find an equation for the graph.



17. A plane is flying at 900 mph and has a bearing of 150˚. After flying 3 hours, how far east and south will the plane have traveled from its point of departure?

18. A ship is 20 miles east and 84 miles north of an island. What bearing should be taken to sail directly to the island?

19. Someone is at a parade looking up at a large balloon floating directly above the street. They are 60 feet from a point on the street directly beneath the balloon. The top of the balloon is at an angle of elevation of 53˚. The bottom of the balloon is at an angle of elevation of 29˚. At eye level the person is 5ft 8 in. How tall is the balloon?